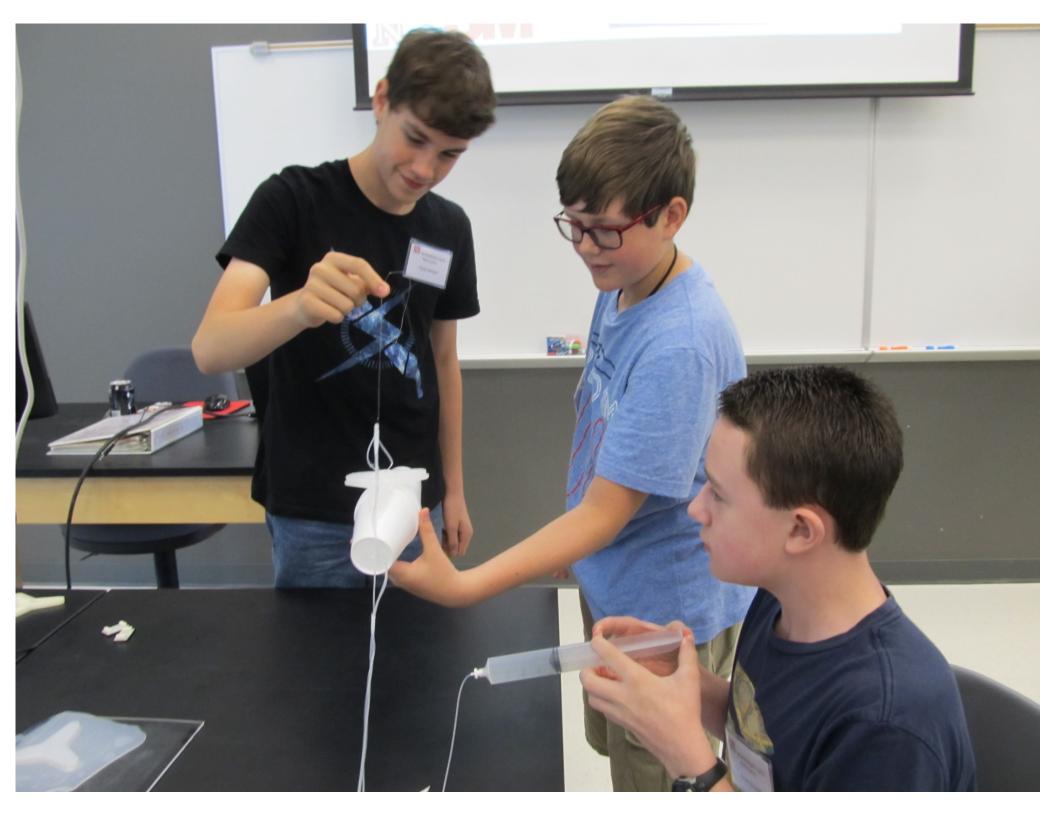
NCMN/Bright Lights 2016 Nanocamp

Monday

- Soft Materials Robotics
- Materials in Medicine
- Magnetism







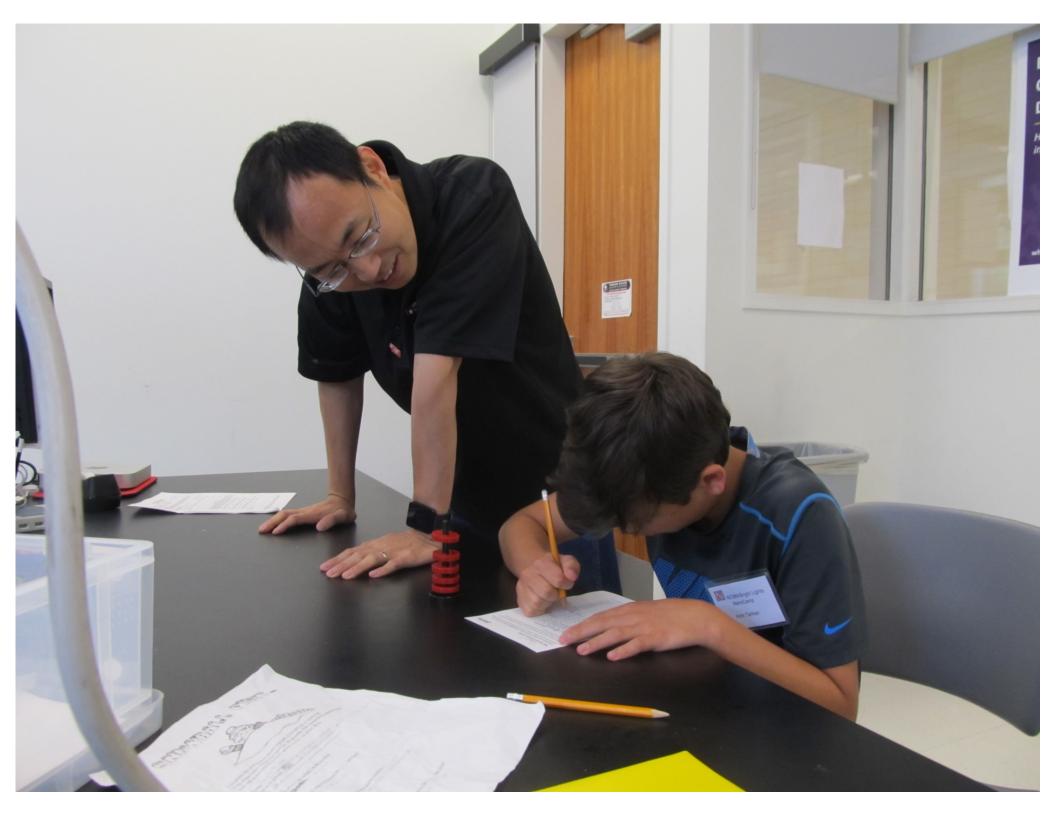


















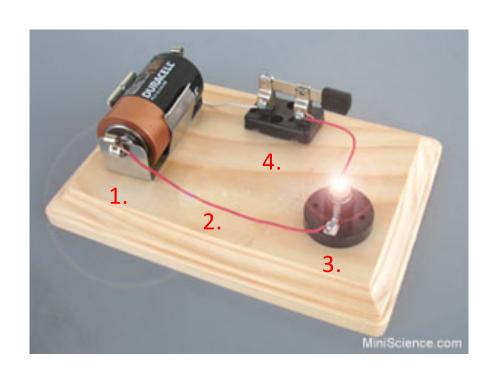


Tuesday

Electronic Circuits
 Squishy Circuits
 Lemon Batteries

Basic Circuits

 What do you have to have for an Electrical Circuit?



- 1. Energy Source
- 2. Conducting path
- 3. Load (Resistance)
- 4. Switch (not needed, but usually present)

Let's make circuits



LEDS

















Wednesday

- Tour of Nanoscience Center
- DNA and Genes
- Graphene
- Nano and Nature







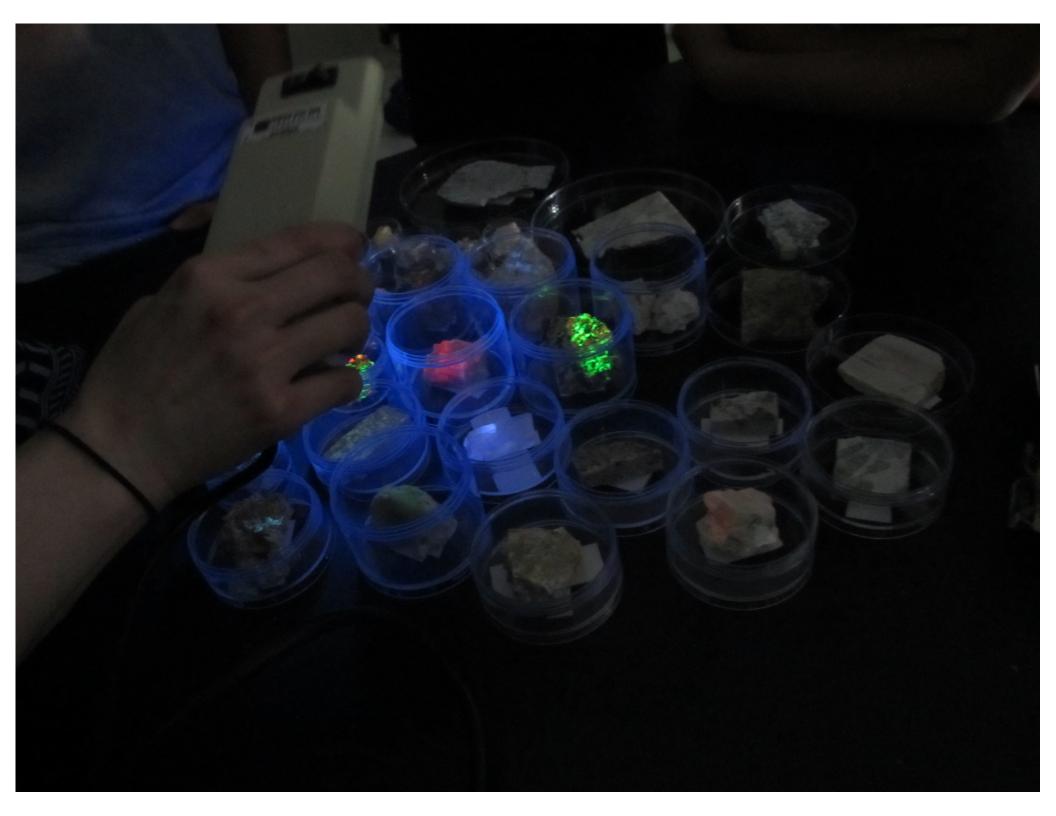














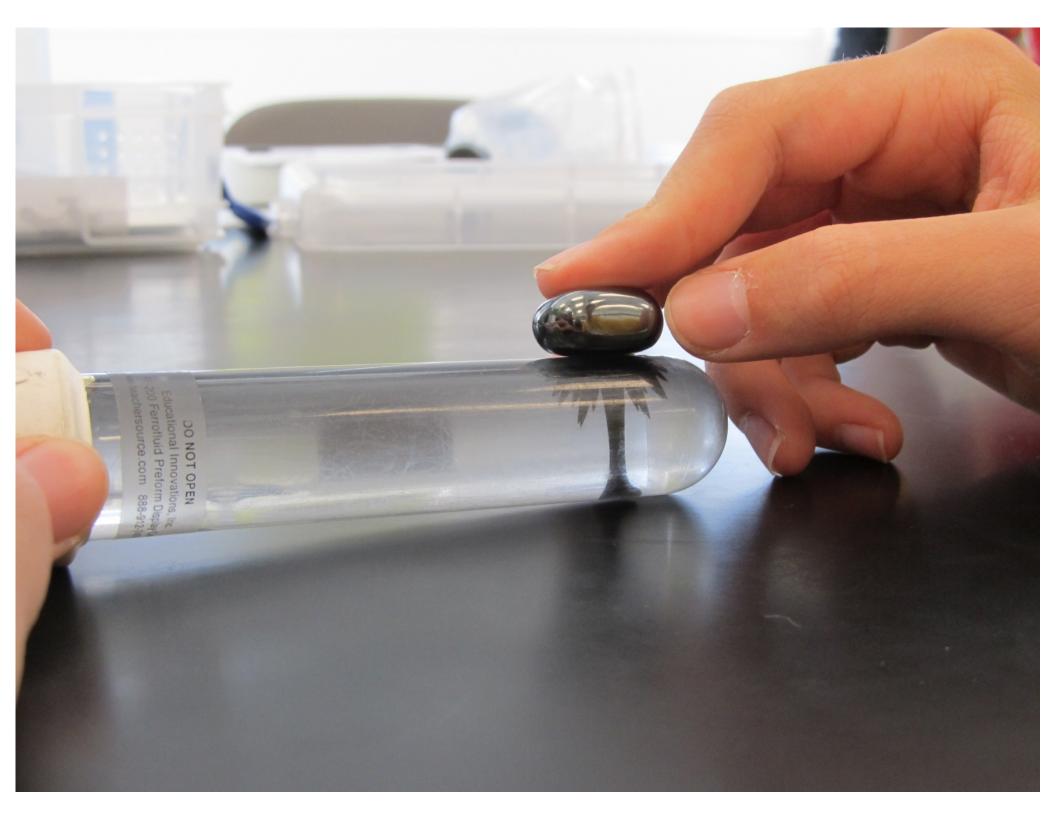






Thursday

- Nanocomposite Materials
- Alloys
- Carbon Nanotubes
- Nanotechnology & the Body













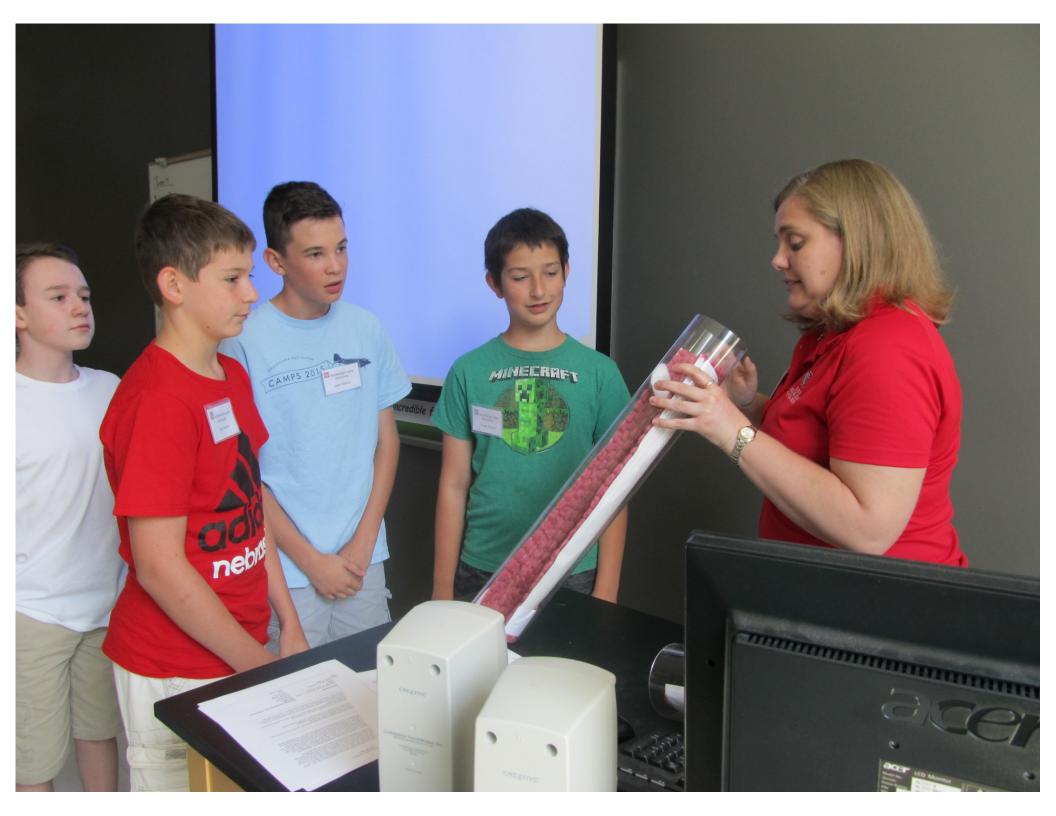








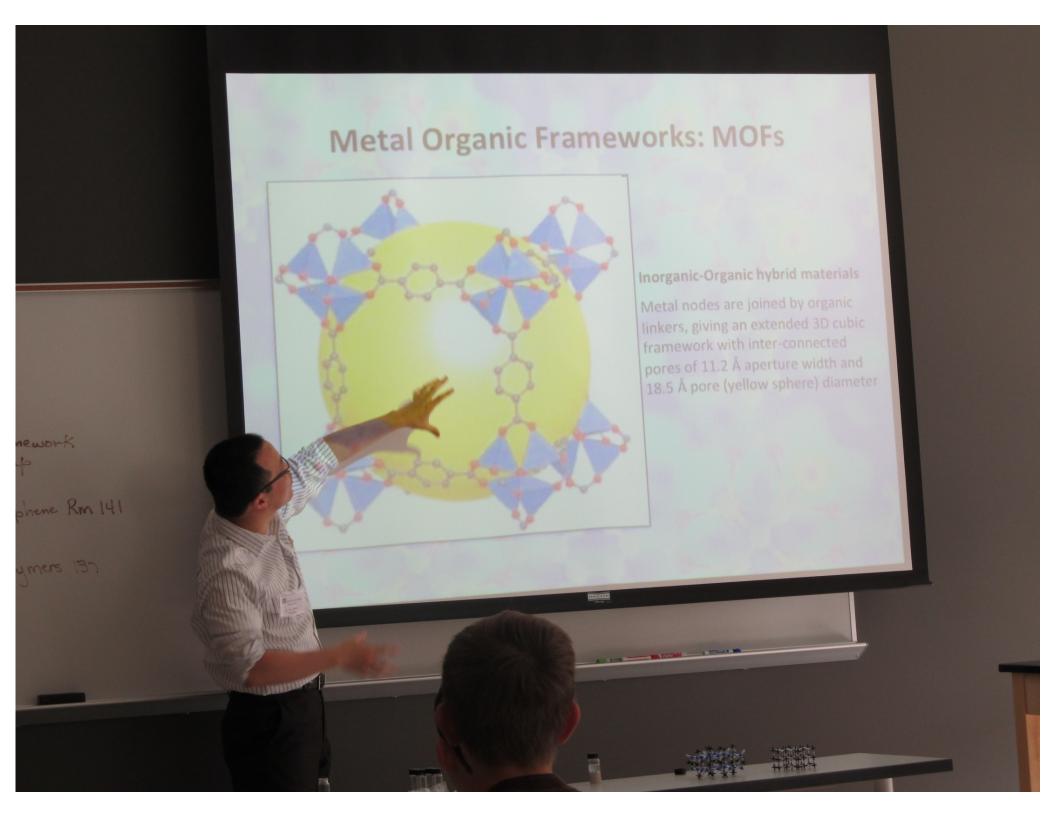


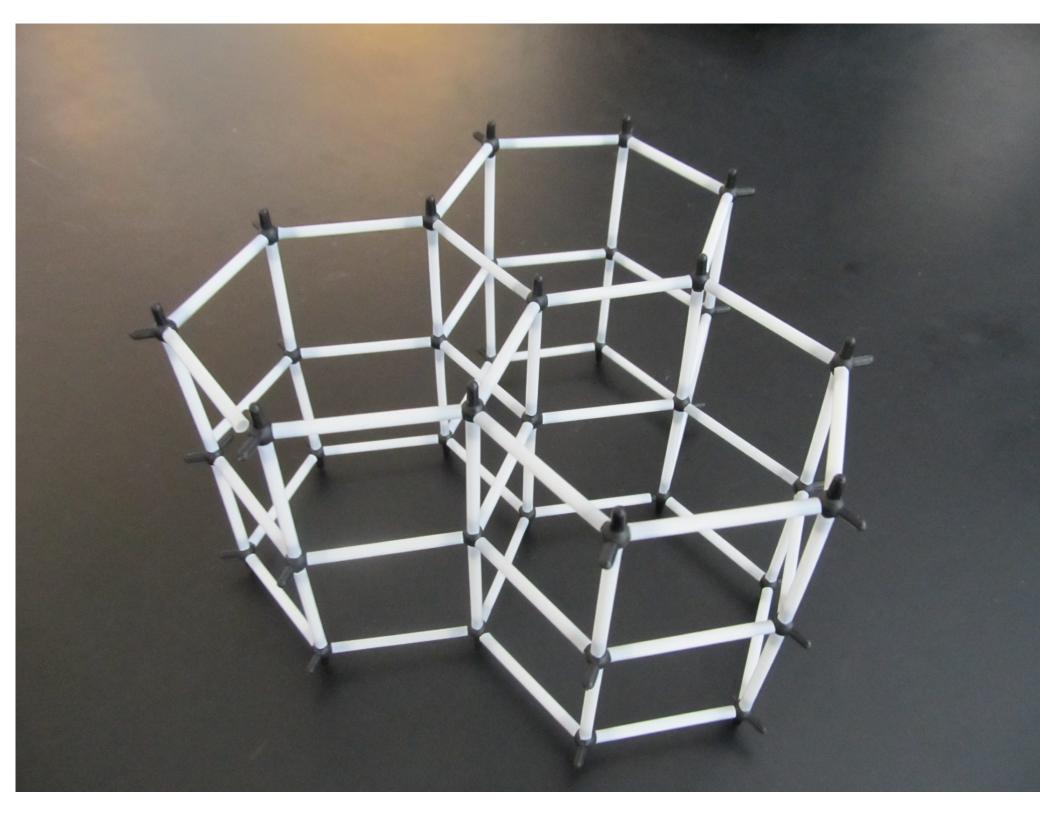




Friday

- Metal Organic Frameworks
- Nano Ice Cream
- Open House

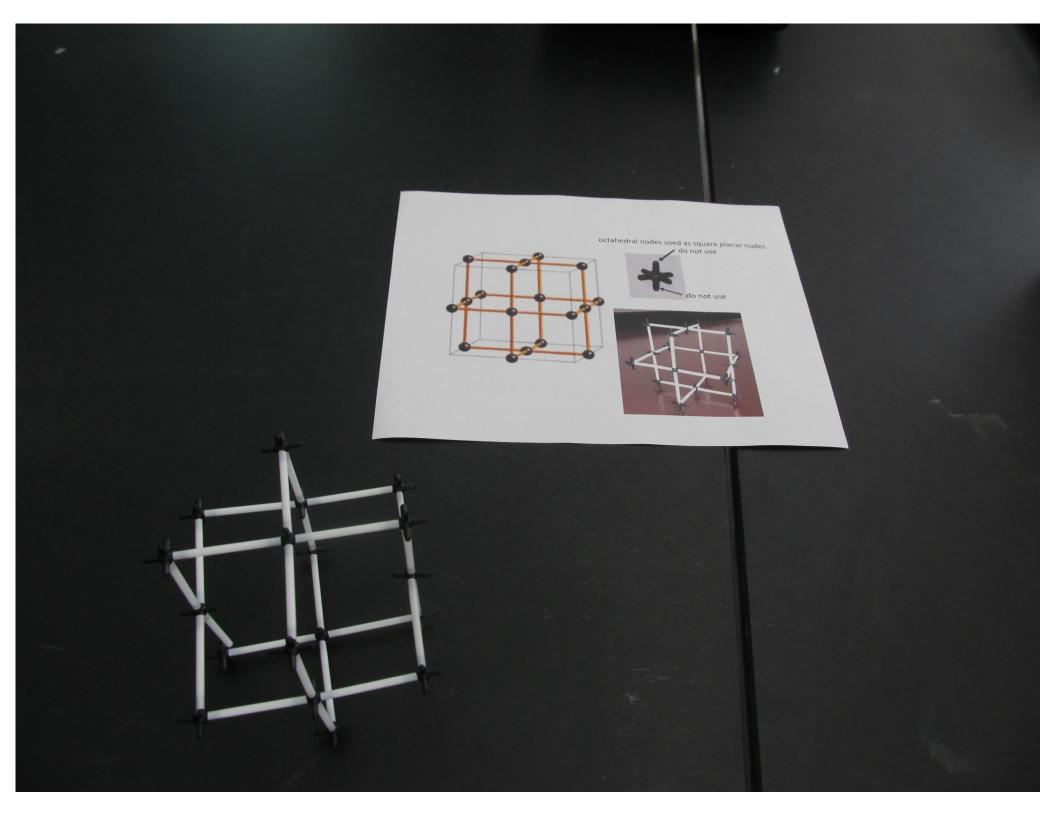














Nanocamp

June 20, 2013

Zane Gernhart

What is ice cream??

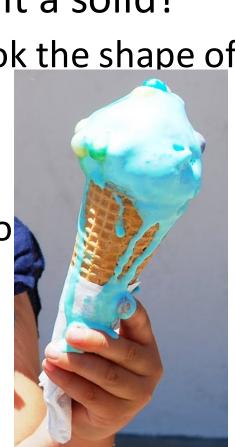
It has ice in the name, is it a solid?

Not quite! See how it took the shape of

• Is it a liquid?

Not unless you wait too lo

It's both!



Colloids

• A colloid is one phase mixed into another.

COLLOID		Continuous Phase		
		Solid	Liquid	Gas
Dispersed Phase	Solid	Solid	Sol	Smoke
	Liquid	Gel	Emulsion	Fog
	Gas	Solid foam	Liquid foam	(none)

• Ice cream is both a foam, emulsion, and sol!









